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Number

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IV Semester Diploma Examination, May 2011

MECHANICAL ENGINEERING BOARD

MACHINE DESIGN & THEORY OF MACHINES

Time : 3 Hours]

[Max. Marks : 100

- Notes : (1) Question No. – 1 is compulsory.
 (2) Answer any two full questions from Sections – II, III & IV.
 (3) Missing data may be suitably assumed.

SECTION – I

1. (a) Fill in the blanks : 5 × 1 = 5
- (i) Shaft with collars at both ends fitted in a circular hole is _____ pair.
- (ii) Two shafts A and B are of the same material. Diameter of A is twice as that of B. The power transmitted by the shaft A will be _____ times that of by Shaft B.
- (iii) The frictional torque transmitted in a flat pivot bearing considering uniform pressure is _____.
- (iv) The size of the cam depends upon _____.
- (v) The power transmitted by a belt is maximum when the maximum tension is equal to _____ times the centrifugal tension.
- (b) Sketch and explain elliptical trammel. 5

SECTION – II

2. (a) Define the following : 4
- (i) Kinematic pair
- (ii) Structure
- (b) Differentiate machine and structure. 4
- (c) Explain with neat sketch, the Oldham's coupling. 7

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Table of Contents Mechanical Engineering Nquestion Papers

1. Understanding the eBook Mechanical Engineering Nquestion Papers
 - The Rise of Digital Reading Mechanical Engineering Nquestion Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering Nquestion Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanical Engineering Nquestion Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Engineering Nquestion Papers
 - Personalized Recommendations
 - Mechanical Engineering Nquestion Papers User Reviews and Ratings
 - Mechanical Engineering Nquestion Papers and Bestseller Lists
5. Accessing Mechanical Engineering Nquestion Papers Free and Paid eBooks
 - Mechanical Engineering Nquestion Papers Public Domain eBooks
 - Mechanical Engineering Nquestion Papers eBook Subscription Services

- Mechanical Engineering Nquestion Papers Budget-Friendly Options
- 6. Navigating Mechanical Engineering Nquestion Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanical Engineering Nquestion Papers Compatibility with Devices
 - Mechanical Engineering Nquestion Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Engineering Nquestion Papers
 - Highlighting and Note-Taking Mechanical Engineering Nquestion Papers
 - Interactive Elements Mechanical Engineering Nquestion Papers
- 8. Staying Engaged with Mechanical Engineering Nquestion Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Engineering Nquestion Papers
- 9. Balancing eBooks and Physical Books Mechanical Engineering Nquestion Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Engineering Nquestion Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Engineering Nquestion Papers
 - Setting Reading Goals Mechanical Engineering Nquestion Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Engineering Nquestion Papers
 - Fact-Checking eBook Content of Mechanical Engineering Nquestion Papers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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